

A phase signal is modulated in quadrature modulation by a quadrature modulator, and the frequency of this modulated phase signal is converted into carrier frequency by a frequency converter. An amplitude signal extracted from the modulating signal is delayed by a delay circuit, and an output gain signal designating the output average power gain is supplied to the output signal of the delay circuit. Synchronization of this frequency modulated phase signal and the amplitude signal delayed and added to the output gain signal allows to obtain an RF signal with little out of band undesired component even if the modulating signal contains amplitude variation. Therefore, the RF signal with little out of band undesired component is output even if the modulating signal contains amplitude variation.